

**TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL**

NASA/GODDARD SPACE FLIGHT CENTER

**REQUEST FOR TASK PLAN / TASK ORDER**

<b>CONTRACTOR</b>		<b>CONTRACT NO./TASK NO.</b>		<b>JOB ORDER NUMBER</b>		<b>APPROP. FY</b>	
QSS Group, Inc.		NAS5- <b>99124</b>	TASK NO. <b>150</b>	AMENDMENT		661-632-20-21 -89	00
<b>TASK TITLE:</b> (NTE 80 characters; include Project name) SWIFT-BAT Front End Test and Calibration Systems							
<b>APPROVALS:</b> (Type or print name and sign)							
<b>ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR)</b>				<b>DATE</b>	<b>ORG CODE</b>	<b>MAIL CODE</b>	<b>PHONE</b>
Jeffrey J. Dumonthier <i>[Signature]</i>				9/23/99	564	663	301-286-4331
<b>BRANCH HEAD</b>				<b>DATE</b>	<b>CODE</b>		<b>PHONE</b>
Robert L. Kasa <i>[Signature]</i>				9/23/99	564		301-286-8043
<b>CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)</b>				<b>DATE</b>	<b>CODE</b>		<b>PHONE</b>
Robert S. Lebar <i>[Signature]</i> <i>Sharon A. Clark</i>				9/23/99	560		301-286-6588
<b>FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE?</b> (If YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)		<b>CONTRACTING OFFICER'S QUALITY REP.</b>			<b>DESIGNATED FAM:</b>		
[x] NO [ ] YES		Larry Moore					
The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reqs and Certs.					(To be completed by Contracting Officer) <b>C.O. Requested Quote on:</b> <b>Date:</b> SEP 24 1999		
Contractor will develop specification or statement of work under this task for a future procurement.					[x] NO [ ] YES		
Flight hardware will be shipped to GSFC for testing prior to final delivery.					[ ] NO [ ] YES [x] N/A		
Government Furnished Property/Facilities:					[x] NO [ ] YES -- SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)		
Onsite Performance:					[ ] NO [x] YES If yes: [ ] TOTAL [x] PARTIAL If partial, indicate onsite work in SOW by asterisk (*)		
Surveillance Plan Attached:					[x] NO [ ] YES		
Highlighted Contract Clauses:					(to be completed by Contracting Officer)		
Per Clause H.14, Task Ordering Procedure, subparagraph (f), the effective date of this task order shall be October 1, 1999.							
<b>INCENTIVE FEE STRUCTURE</b> (check one) (See Contract NAS5-99124, Attachment K, Incentive Fee Plan)							
	No. 1	No. 2	<u>x</u> No. 3	No. 4	No. 5		
Cost	10%	50%	25%	25%	%		
Schedule	15%	25%	25%	50%	%		
Technical	75%	25%	50%	25%	%		
(To be completed by Contracting Officer)							
The target cost of this task order is \$ 129,962							
The target fee of this task order is \$ 8,330							
The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ 138,292							
The maximum fee is \$ 12,175							
The minimum fee is \$0.							
<b>AUTHORIZED SIGNATURE:</b>							
THIS TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE "TASK ASSIGNMENTS AND REPORTS"							
<i>[Signature]</i> SIGNATURE OF CONTRACTING OFFICER				<i>1/14/00</i> DATE		Lorrie L. Eakin Contracting Officer	
TYPED NAME OF CONTRACTING OFFICER							
<b>CONTRACTOR'S ACCEPTANCE:</b>							
AUTHORIZED SIGNATURE				DATE			

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QSS Group, Inc.

NAS5-

99124

TASK NO.

150

AMENDMENT

Applicable paragraphs from contract Statement of Work: 2D, 2E

**STATEMENT OF WORK:** (Continue on blank paper if additional space is required)

*(This is a follow-on to Task 28 under this contract. Task start date is 10/1/99.)*

\* The contractor shall provide the following onsite engineering design and test services for the SWIFT-BAT instrument:

- Assist in developing requirements and procedures for testing and calibrating the front end ASIC's and detector module electronics (ETU and flight).
- Design the necessary GSE electronics, probe cards and test fixtures to perform the functions in (a).
- Coordinate the layout design, procurement, assembly and test of the items in (b).
- Participate in the verification and calibration of the SWIFT-BAT instrument front end electronics.
- Generate the necessary documentation for (a-d).

The contractor shall perform printed wiring board layout, generate fabrication documentation, generate assembly documentation, deliver this documentation to GSFC in electronic format and provide the fabricated PWB's.

### PERFORMANCE SPECIFICATIONS:

Designs, specifications, plans, procedures and test sets are to be produced in accordance with applicable documents (see below) and industry standard practices.

### APPLICABLE DOCUMENTS:

GPG 8700.1, Design Planning and Interface Management  
GPG 8700.2, Design Development  
500-PG-8700.2.2, Electronics Design and Development Guidelines

**TASK END DATE:** 9/30/00

### MILESTONES/DELIVERABLES AND DATES:

Design ASIC test and calibration electronics - ~~November 30, 1999~~ January 10, 2000.  
Complete PWB layouts for ASIC probe card and associated electronics - ~~January 10, 2000~~ January 30, 2000.  
~~Begin ASIC testing and checkout~~  
Complete assembly of the PWB - February 21, 2000.  
Checkout and test of PWB and continuous ASIC testing - September 30, 2000.

### PERFORMANCE STANDARDS:

**Schedule:** Completion of noted milestones.  
**Technical:** Meets specifications, as determined by the ATR

### FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):

Jeffrey J. Dumonthier, Bldg 2, Rm 68